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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,713	10/12/2001	Patrick M. Sewall	RIDG101	3294
29683	7590 06/28/2004		EXAMINER	
HARRINGTON & SMITH, LLP			COBY, FRANTZ	
4 RESEARCH SHELTON, O	H DRIVE CT 06484-6212		ART UNIT	PAPER NUMBER
,			2171	
			DATE MAILED: 06/28/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	6			
	09/977,713	SEWALL ET AL.	Av.			
Office Action Summary	Examiner	Art Unit				
	Frantz Coby	2171				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	vith the correspondence addres	is			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thi will apply and will expire SIX (6) MO cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this commu. BANDONED (35 U.S.C. § 133).	nication.			
Status						
1) Responsive to communication(s) filed on 21 Ap	nril 2004					
	action is non-final.					
3) Since this application is in condition for allowar		ters, prosecution as to the me	rits is			
closed in accordance with the practice under E	•	• •				
Disposition of Claims						
4)⊠ Claim(s) <u>1-53</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-53</u> is/are rejected.		•				
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers		. 4				
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct		, ,	.121(d).			
11)☐ The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the certified copies 	s have been received. s have been received in A ity documents have beer (PCT Rule 17.2(a)).	Application No n received in this National Stag	je			
Attachment(s)						
1) D Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		(s)/Mail Date Informal Patent Application (PTO-152	١			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:		,			

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This is in response to Applicant's response to office action file on April 12, 2004.

Status of Claims

Claims 1-53 are pending.

Response to Arguments

Applicant's arguments filed on the aforementioned date have been fully considered but they are not persuasive. Therefore, the rejection of claims 1-53 mailed on November 05, 2003 (paper # 5 remains).

The rejection follows:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Middleton WO 00/70770 in view of Chambers IV U.S. Patent no. 5,426,779.

As per claim 1, Middleton discloses "a compressed data structure" by providing a Compression/Decompression method (See Middleton Title). In particular, Middleton discloses the claimed limitations of "a plurality of code strings" as control codes (See Middleton Figure 1, component 12; top of page 11) and "a plurality of look-up strings" as look-up table means (See Middleton Figure 1, component 10; bottom of page 10, page 6).

It is noted, however, Middleton did not specifically disclose "an index identifying a particular code string to be retrieved and an instruction identifying an operation to be performed on the retrieved code string" as recited in the instant claim 1. On the other hand, Chambers, IV discloses a data compression/decompression system including a lookup table indexable by data pairs from the history buffer wherein an encoding scheme may by employed (See Chambers IV Figures 7, 10 and corresponding text; Col. 2, line 62-Col. 3, line 7).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modified the system of Middleton and Chambers IV because they are both directed to method and apparatus for data compression/decompression and are both from the same field of endeavor. One of ordinary skill in the art at the time of the

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invention would have been motivated to do so because the indexing teachings of Chambers IV will permit the lookup table of Middleton to search and retrieve code strings more efficiently.

As per claim 2, most of the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Chambers IV discloses the claimed limitations of "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49).

As per claim 3, most of the limitations of this claim have been noted in the rejection of claim above. In addition, Chambers IV discloses the claimed limitations of "a segmented library, each segment of the library containing at least one code string" (See Chambers IV Figure 7) wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49).

As per claims 4-6, most of the limitations of these claims have been noted in the rejection of claim 1 above. In addition, Chambers discloses the claimed limitations of code strings are positioned in a history cache as a history buffer (Figure 7), instruction to retrieve the code string (See Chambers IV' Col. 10, line 50-Col. Col. 12, line 51).

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As per claim 7, most of the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Middleton discloses the claimed limitations of "a decompression engine operable, for at least one look-up string, to retrieve a code string identified by the index in the look-up string and to perform operation on or using the retrieved code string according to the instruction in the look-up string" through a decompression method using an expansion technique (See Middleton Title, page 7).

As per claims 8-13, most of the limitations of these claims have been noted in the rejection of claim 7 above. In addition, Chambers discloses "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49); "a segmented library, each segment of the library containing at least one code string" (See Chambers IV Figure 7); an output memory; writing code strings to the memory; altering code strings (See Chambers IV Figures 1-3, Col. 4, lines 26-41).

As per claims 14-15, most of the limitations of these claims have been noted in the rejection of claim 7 above. In addition, Chambers discloses code stings comprise thirty-two bits and look-up string includes no more than eight bits (See Chambers IV Figure 7).

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As per claim 16, most of the limitations of this claim have been noted in the rejection of

claim 7 above. In addition, Middleton discloses the claimed features of "a first memory

location", "a second memory location", and "a processor" through the computers

connected in the Internet environment wherein the compression and decompression

method is being implemented (See Middleton Abstract).

As per claims 17-26, most of the limitations of these claims have been noted in the rejection of claim 16 above. In addition, Chambers discloses "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49); a processor cache as a buffer (Figure 7); a segmented library (Figure 7); code strings are positioned in a history cache as a history buffer (Figure 7); instruction to retrieve the code string (See Chambers IV Col. 10, line 50-Col. Col. 12, line 51); retrieve a code string identified by the index in the look-up string and to perform operation on or using the retrieved code string according to the instruction in the look-up string through a decompression method using an expansion technique (See Middleton Title, page 7); writing code strings to the memory; altering code strings (See Chambers IV Figures 1-3, Col. 4, lines 26-41); first memory location; second memory location; output memory location (See Chambers Figure 1).

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As per claim 27, Middleton discloses the claimed limitations of "a method for decompressing a data structure having a plurality of look-up strings and a plurality of code strings" through a decompression method using an expansion technique (See Middleton Title, page 7). In particular, Middleton discloses reading a look-up string; retrieving a code string identified by the look-up string; and performing on the retrieved code string an operation identified by the look-up string through a browser wherein as control codes that are retrieved (See Middleton Figure 1, component 12; top of page 11) and a plurality of look-up strings are read (See Middleton Figure 1, component 10; bottom of page 10; page 6).

As per claims 28-40, most of the limitations of these claims have been noted in the rejection of claim 27 above. In addition, Chambers discloses "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49); a processor cache as a buffer (Figure 7); a segmented library (Figure 7); code strings are positioned in a history cache as a history buffer (Figure 7); instruction to retrieve the code string (See Chambers IV Col. 10, line 50-Col. Col. 12, line 51); retrieve a code string identified by the index in the look-up string and to perform operation on or using the retrieved code string according to the instruction in the look-up string through a decompression method using an expansion technique (See Middleton Title, page 7); writing code strings to the memory; altering code strings (See Chambers IV Figures 1-3, Col. 4, lines 26-41); first

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memory location; second memory location; output memory location (See Chambers Figure 1).

As per claim 41, all the limitations of this claim have been noted in the rejection of claim 27. It is therefore rejected as set forth above.

As per claims 42-53, most of the limitations of these claims have been noted in the rejection of claim 41 above. In addition, Chambers discloses "wherein at least some of the code strings are positioned in a library and the index of at least one look-up string identified a position in the library form which a particular code string is to be retrieved" (See Chambers IV Figure 7; Col. 5, line 15-Col. 6, line 49); a processor cache as a buffer (Figure 7); a segmented library (Figure 7); code strings are positioned in a history cache as a history buffer (Figure 7); instruction to retrieve the code string (See Chambers IV Col. 10, line 50-Col. Col. 12, line 51); retrieve a code string identified by the index in the look-up string and to perform operation on or using the retrieved code string according to the instruction in the look-up string through a decompression method using an expansion technique (See Middleton Title, page 7); writing code strings to the memory; altering code strings (See Chambers IV Figures 1-3, Col. 4, lines 26-41); first memory location; second memory location; output memory location (See Chambers Figure 1).

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Remarks

The Applicant argued that Middleton does not disclose or suggest data structure. The Examiner disagrees with the preceding argument because both Middleton and Chambers IV provides a data structure for data compression and decompression.

The Applicant also argued that, neither Middleton nor Chambers IV teaches or suggests the index-instruction pair of the present invention. However, the Examiner has reviewed the presented claims and it is not clear to the Examiner as to where in the claims the feature of index-instruction pair is being mentioned. Also, In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response to applicant's argument that event if one were to combine the teachings of Middleton and Chambers in the manner urged by the Examiner, the claimed invention would not be disclosed or suggest to one skilled in the art, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art.

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See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, It would have been obvious to one of ordinary skill in the art at the time of the invention to modified the system of Middleton and Chambers IV because they are both directed to method and apparatus for data compression/decompression and are both from the same field of endeavor. One of ordinary skill in the art at the time of the invention would have been motivated to do so because the indexing teachings of Chambers IV will permit the lookup table of Middleton to search and retrieve code strings more efficiently.

Last, the Applicant pointed out that the present invention is also concerned with processing power and thus decreasing power consumption of a CPU and that Middleton and Chambers do not take consumption of a CPU. The Examiner, after review of all the claims presented, has found no such feature being present in the claims. Therefore, it is clear that the Applicant fail to show certain features of its invention, it is noted that the features upon which applicant relies are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frantz Coby whose telephone number is 703 305-4006. The examiner can normally be reached on Maxi-Flex (Monday-Saturday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 703 308-1436. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frantz Coby
Primary Examiner
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June 26, 2004